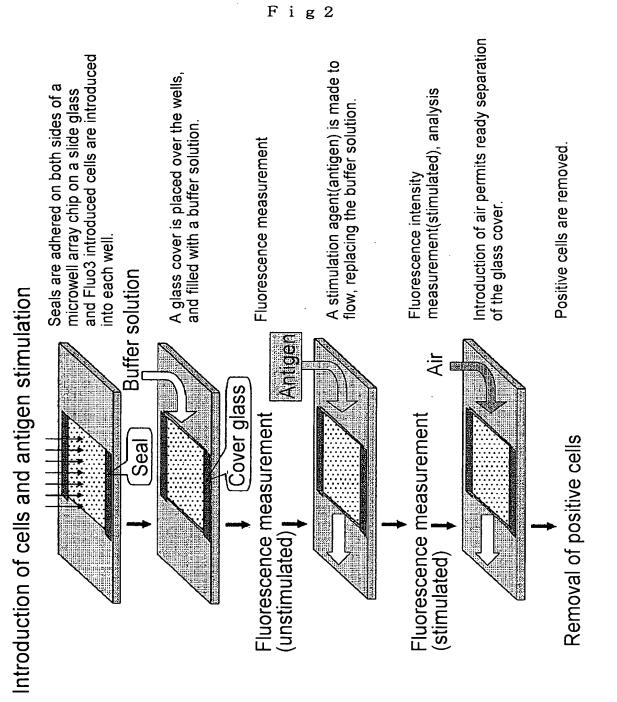


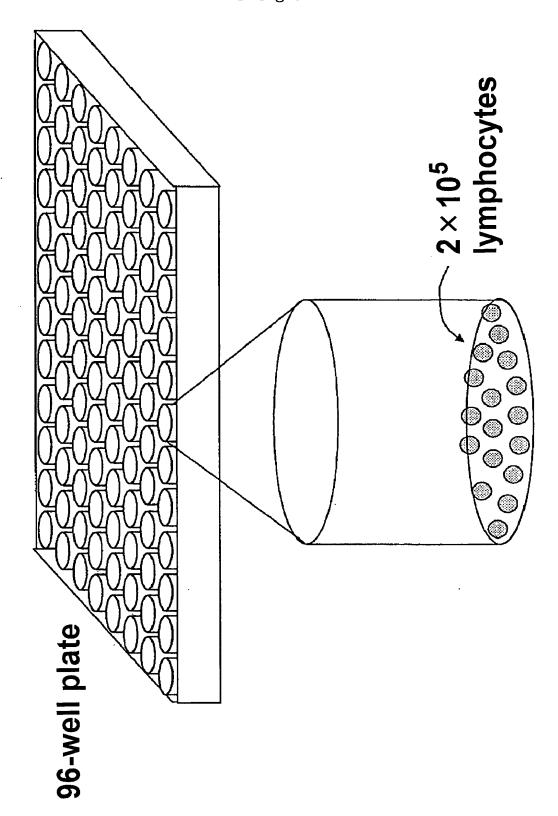
Fluorescence Antigen Excitation 473nm (Ca-ion dependent fluorescent dye) cell recaptor Principle of introduction of Fluo3 into cells and Fluo3/AM Ca2+ measurement

Fluo3/AM is digested with an enzyme in a cell to form Fluo3, Which binds to Ca<sup>2+</sup>, When an antigen binds to a B-cell receptor, Ca2+ concentration in a cell increases. resulting in generation of fluorescence.

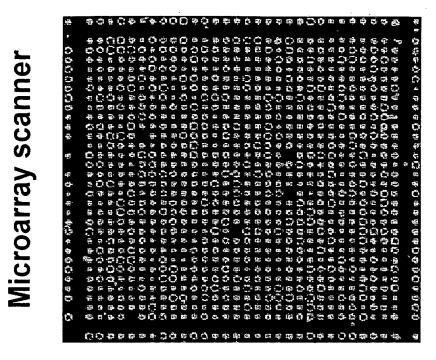
## Best Available Copy



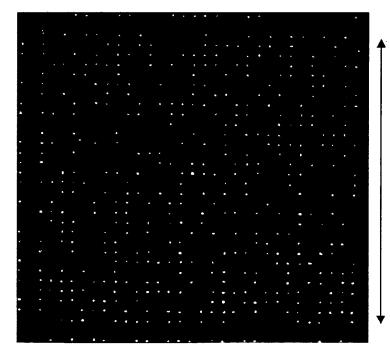
F i g 3



F i g 4

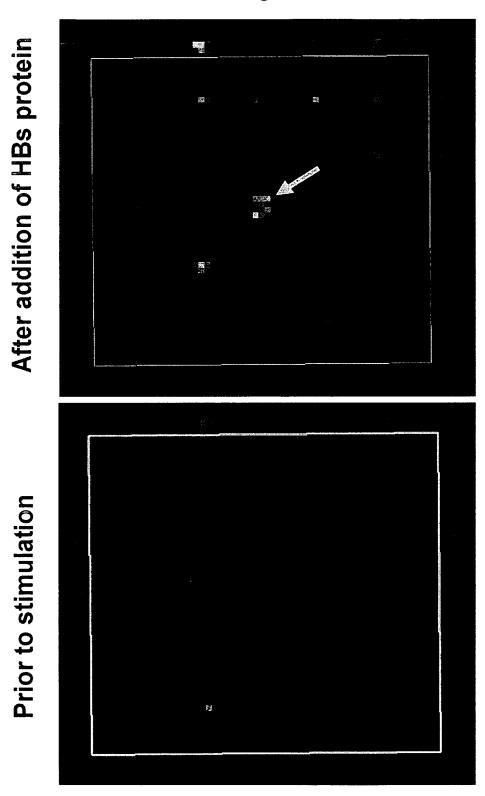


Fluorescence microscopy



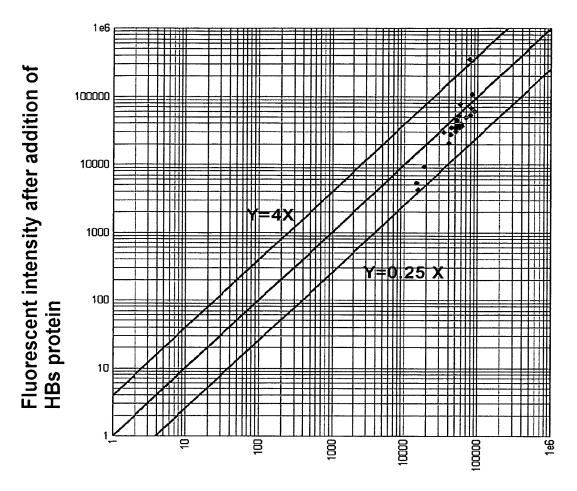
One cluster =  $30 \times 30$  wells

F i g 5



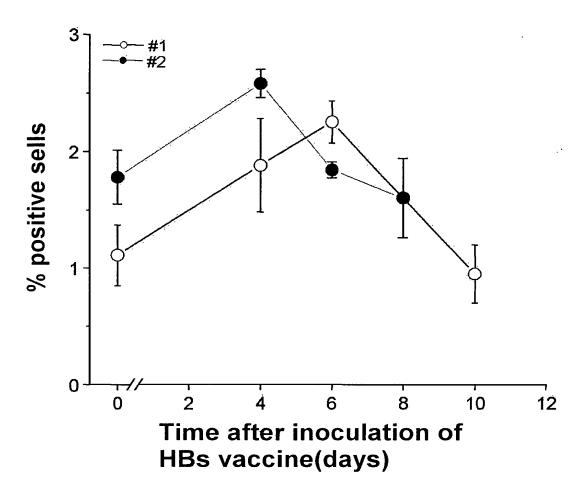
Best Available Copy

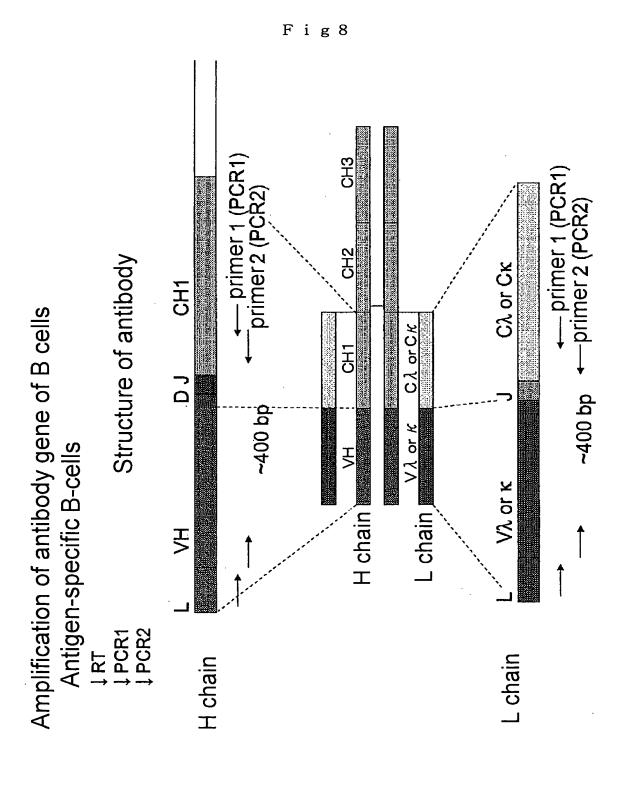




Fluorescent intensity prior to stimulation







1st:	Н	cagtetecagecacetgtetttgtetecaggggcaaagtagecaceetetetgenggg 60
2nd:	55	• • •
1 s t :	61	ccagtcagagtgttagcanctacttagcctggtaccaacagaaacactggccaggctccc 120
2nd:	113	ccagtcagagtgttagcagctacttagcctggtaccaacagaaac-ctggccaggctccc 171
lst:	121	aggetectnatetatgatgéateteaacagggecactggeateceagecaggttaagtgg 180
2nd:	172	aggetecteatetatgatgeate-caacagggeeactggeateceageeacetteagtgg 230
1st:	181	cagtgggtctgggacagacttcactctcaccatcancagcctagagcctgaagattntgc 240
2nd:	231	cagtgggtctgggacagacttcactctcaccatcagcagcctagagcctgaagattttgc 290
1st:	241	agttnattactgtcancagcgtatcaactggcctctcactttcggcggagggaccaaggc 300
2nd:	291	- ๙

tggagatcaaacgaactgtggctgcaccatctgtc 335 

2nd: 350 tggagatcaaacgaactgtggctgcaccatctgtc 384

tgtgcgagacag 357

2nd: 346

F	i	g	1	0
_	-	0	_	-

	tgtgcgagacag 312 	301	1 st .
345	aagaaccagttctccctgaagctgagctctgtgaccgccgcagacacggctgtgtattac	286	2nd:
300	aagaaccagttctccctgaagctgagctctgtgaccgccgcagacacggctgtgtattac	241	1st:
285	– m	226	2nd:
240	gggagcacctactacaacccgtccctcaagagtcgagtc	181	1 s t:
225	ggctggatccgccagccccagggaaggggctggagtggattgggagtatctattatagt	166	2nd:
180	ggctggatccgccagccccagggaaggggctggagtggattgggagtatctattatagt 	121	۲ ۵ ۲
165	accctgtccctcacctgcactgtctctggtggctccatcagcagtagtagttactactgg	106	2nd:
120	accctgtccctcacctgcactgtctctggtggctccatcagcagtagtagttactactgg	61	1st:
105	٠ نــ -	8 48	2nd:
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